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Ghosh, Soumitra S.
Moos, Walter H.
Pei, Yazhong

<130> 660088.420D4

<141> 2001-03-14

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<211> 894

<212> DNA

<213> Homo sapien

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tacttcccca	cccaagctct	caacttcgcc	ttcaaggaca	agtacaagca	gctcttctta	300
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ttggctgctg	atgtgggcag	gcgcgcccag	cgtgagttcc	atggctctggg	cgactgtatc	480
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gcaaaagacg	aaggagccaa	ggcctctctc	aaaggtgcct	gggtccaatg	gctgagaggc	840
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<213> Homo sapien

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attcccaagg	agcaggaagt	tctgtccttc	tggcgcggta	acctggccaa	tgtcatcaga	240

tacttcccca	cccaggctct	taacttcgcc	ttcaaagata	aatacaagca	gatcttcctg	300
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ggtgccgcag	gggccacatc	cctgtgtttt	gtgtaccctc	ttgattttgc	ccgtaccctg	420
ctagcagctg	atgtgggtaa	agctggagct	gaaagggaa	tccgaggcct	cggtgactgc	480
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cagtcagggc	gcaaagggaac	tgacatcatg	tacacaggca	cgcttgactg	ctggcggaag	780
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<210> 3

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<212> DNA

<213> Homo sapien

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gccagcaagc	agatcgccgc	cgacaagcag	tacaagggca	tcgtggactg	cattgtccgc	180
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tacttcccca	ctcaagccct	caacttcgcc	ttcaaagata	agtacaagca	gatcttcctg	300
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<211> 43

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<213> Artificial Sequence

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<223> PCR Primer

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<210> 5

<211> 43

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<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 5

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<210> 6

<220>
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<211> 43
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<213> Artificial Sequence
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<211> 43
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18

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<223> Mutagenic oligonucleotide primer

45

<213> Artificial Sequence

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45

<213> Artificial Sequence

<223> PCR primer

35

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34

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 <223> PCR primer

 <400> 17
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 <220>
 <223> Sequencing primer

 <400> 18
 aaatgataac catctcgc 18

 <210> 19
 <211> 18
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 <400> 19
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 <400> 20
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 <223> Sequencing primer

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<213> Artificial Sequence

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<210> 28

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 28

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42

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<211> 42

<212> DNA

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<223> PCR primer

<400> 29

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42

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<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polypeptide

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<210> 31

<211> 297

<212> PRT

<213> Homo sapien

<400> 31

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Lys Leu Leu Leu Gln Val Gln His Ala Ser Lys Gln Ile Ser Ala Glu
 35 40 45
 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Phe Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Leu Phe Leu Gly Gly Val Asp Arg His Lys Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Arg Arg Ala Gln Arg Glu Phe His Gly Leu Gly Asp Cys Ile
 145 150 155 160
 Ile Lys Ile Phe Lys Ser Asp Gly Leu Arg Gly Leu Tyr Gln Gly Phe
 165 170 175
 Asn Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe Gly
 180 185 190
 Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Val His
 195 200 205
 Ile Phe Val Ser Trp Met Ile Ala Gln Ser Val Thr Ala Val Ala Gly
 210 215 220
 Leu Leu Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met Gln
 225 230 235 240
 Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp Cys
 245 250 255
 Trp Arg Lys Ile Ala Lys Asp Glu Gly Ala Lys Ala Phe Phe Lys Gly
 260 265 270
 Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu Val
 275 280 285
 Leu Tyr Asp Glu Ile Lys Lys Tyr Val
 290 295

<210> 32
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 <212> PRT
 <213> Homo sapien

<400> 32
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 35 40 45
 Lys Gln Tyr Lys Gly Ile Ile Asp Cys Val Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Glu Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys Arg Thr Gln Phe Trp Arg Tyr
 100 105 110
 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125

"HOMOTETRA"

Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ala Gly Ala Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Tyr Lys Ser Asp Gly Ile Lys Gly Leu Tyr Gln Gly
 165 170 175
 Phe Asn Val Ser Val Gln Gly Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Ile Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Ile Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220
 Gly Leu Thr Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Thr Asp Ile Met Tyr Thr Gly Thr Leu Asp
 245 250 255
 Cys Trp Arg Lys Ile Ala Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
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 275 280 285
 Val Leu Tyr Asp Glu Ile Lys Lys Tyr Thr
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 <212> PRT
 <213> Homo sapien

<400> 33

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 35 40 45
 Lys Gln Tyr Lys Gly Ile Val Asp Cys Ile Val Arg Ile Pro Lys Glu
 50 55 60
 Gln Gly Val Leu Ser Phe Trp Arg Gly Asn Leu Ala Asn Val Ile Arg
 65 70 75 80
 Tyr Phe Pro Thr Gln Ala Leu Asn Phe Ala Phe Lys Asp Lys Tyr Lys
 85 90 95
 Gln Ile Phe Leu Gly Gly Val Asp Lys His Thr Gln Phe Trp Arg Tyr
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 Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu
 115 120 125
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp
 130 135 140
 Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys
 145 150 155 160
 Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly
 165 170 175
 Phe Ser Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe
 180 185 190
 Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr
 195 200 205
 His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala
 210 215 220

Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met
 225 230 235 240
 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp
 245 250 255
 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys
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<220>
 <223> Primer for PCR amplification of human ANT3 for
 expression construct

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<210> 35
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 expression construct

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<210> 36
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 36
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<210> 37
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 <212> DNA
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 <223> Primer for PCR amplification of EYFP

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